

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Product Name : ECODARE F
Use : Fire Extinguishing Product
Supplier : Britannia Fire Limited
Ashwellthorpe Industrial Estate
Ashwellthorpe
NR16 1ER
United Kingdom
Telephone : +44 (0) 1508 488416
Fax : +44 (0) 1508 481753
E mail : sales@britannia-fire.co.uk

2. HAZARDS IDENTIFICATION

Symptoms relating to use

Inhalation : None under normal conditions.
Skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.
Eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Ingestion : Must not come into contact with food or be consumed. Swallowing of this product presents some health hazard.

2.1 Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Not regulated.

2.2 Label elements

Labelling EC 67/548 or EC 1999/45

Contains : Ethanediol
Ethanol

Labelling Regulation EC 1272/2008 (CLP)

Precautionary statements

2.3 Other hazards

Other hazards : None under normal conditions.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1./3.2. Substance / Preparation

Substance / Preparation : Preparation.

Components : This product is not hazardous but contains hazardous components.

Substance name	Contents	CAS No	EC No	Annex No	Ref REACH	Classification
Ethenediol	: Between 1 and 5 %	107-21-1	203-473-3	603-027-00-1	----	Xn; R22 ----- Acute Tox. 4 (Oral);H302
Ethanol	: Between 0.1 and 1 %	64-17-5	200-578-6	603-002-00-5	----	F; R11 ----- Flam. Liq. 2;H225

4. FIRST AID MEASURES

4.1. Description of first aid measures

4.2. Most important symptoms and effects, both acute and delayed

- Inhalation : Assure fresh air breathing.
- Skin contact : Flush with plenty of water.
- Eye contact : Rinse immediately with plenty of water.
- Ingestion : Call a physician immediately.

4.3 Indication of any immediate medical attention and special treatment needed

First aid measures

- Inhalation : Assure fresh air breathing.
- Skin contact : Rinse immediately with plenty of water.
- Eye contact : Rinse immediately with plenty of water.
- Ingestion : Rinse mouth.

If swallowed, seek medical advice immediately and show this container or label.

5. FIREFIGHTING MEASURES

5.1. Advice for firefighters

- Flammable class : Product used as extinguishing media.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures : Exercise caution when fighting any chemical fire.
- Surrounding fires : Use water spray or fog for cooling exposed containers.

6. ACCIDENTAL RELEASE MEASURES

6.1. Reference to other sections

See Heading 8.

- Personal precautions : Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.
- Environmental precautions : Prevent entry to sewers and public waters.
Notify authorities if product enters sewers or public waters.
- Clean up methods : Collect spills and put it into appropriated container.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- Personal protection : Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing.
- Handling : Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- Technical protective measures : Proper grounding procedures to avoid static electricity should be followed.

Both local exhaust and general room ventilation are usually required.

7.2 Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

7.3 Specific end use(s)

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.2. Exposure controls

- Personal protection
- Respiratory protection : No special respiratory protection equipment is recommended under Normal conditions of use with adequate ventilation.
- Hand protection : In case of repeated or prolonged contact wear gloves.
- Skin protection : No special clothing/skin protection equipment is recommended under Normal conditions of use.
- Eye protection : Safety glasses.
- Ingestion : When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

9.1.a. Appearance

- Physical state at 20 °C : Liquid.
- Colour : Colourless to light yellow.

9.1.b. Odour

- Odour : Characteristic.

9.1.c. pH

- pH value : 7-9

9.1.d. Melting point / Freezing point

- Point de congelation : -30°C

9.1.e. Initial boiling point - boiling range

No reliable data available.

9.1.f. Flash point

No reliable data available.

9.1.g. Evaporation rate

No reliable data available.

9.1.h. Explosion limits (lower - upper)

No reliable data available.

9.1.i. Vapour pressure

No reliable data available.

9.1.j. Vapour density

No reliable data available.

9.1.k. Relative density

1,1-1,2 g/mL

Density : 1,05-1,20

9.1.l. Solubility

Completament soluble dans l'eau.

9.1.m. Viscosity

2,0-8,0 cP

Viscosity : 2-8

9.2. Other information

Refraction index (°) : 1,35-1,40

10. STABILITY AND REACTIVITY**10.1. Reactivity****10.2. Chemical stability**

Stability and reactivity : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Thermal stability : Stable under normal conditions.

Hazardous reactions : Strong oxidizing agents.

10.4. Conditions to avoid**10.5. Incompatible materials**

Materials to avoid : Strong oxidizers.

10.6. Hazardous decomposition products

Hazardous properties : None under normal conditions.

11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Toxicity information : No data available.

12. ECOLOGICAL INFORMATION**12.1. Toxicity**

Ecological effects information : Not dangerous to the environment

13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Dispose in a safe manner in accordance with local/national regulations.

General : Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

General information : Not regulated
Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
Ensure all national/local regulations are observed.

Chemical safety assessment
No data available.

Symbol(s) : None

R Phrase(s) : None

S Phrase(s) : None

16. OTHER INFORMATION

List of relevant R phrases (§ 3) : R11 - Highly flammable.

R22 - Harmful if swallowed.

List of relevant H phrases (Section 3) : H225 - Highly flammable liquid and vapour

H302 - Harmful if swallowed

Revision : 0

Further information : None